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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.		
09/208,962	12/10/9	3 ELCO	R	4414-D		
-				EXAMINER		
MM41/0831 BRIAN J HAMILLA INTELLECTUAL PROPERTY LAW DEPARTMENT FCI/BERG ELECTRONICS GROUP INC 825 OLD TRAIL RD ETTERS PA 17319		LECTUAL PROPERTY	ART UNIT	ABRAMS, N ART UNIT PAPER NUMBER 2839 DATE MAILED:		

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

	Application No. 09/208	962	Applicant(s)					
· Office Action Summary	Examiner							
	N A	16r	ams	Group Art Unit 2839				
-The MAILING DATE of this communication appears	on the cover s	heet be	neath the co	rrespondence add	ress			
P riod for Reply	,	2						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	EXPIRE	2_	_MONTH(S)	FROM THE MAILIN	NG DATE			
 Extensions of time may be available under the provisions of 37 CFR 1.13 from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, such period shall, by default, ex Failure to reply within the set or extended period for reply will, by statute, 	within the statutory	y minimu HS from	m of thirty (30) o	days will be considered	timely.			
Status								
Responsive to communication(s) filed on $8-13-0$	1 (RCE	F /	ad a	e and+	.)			
☐ This action is FINAL.			vici p.	0/1/14/				
☐ Since this application is in condition for allowance except for accordance with the practice under Ex parte Quayle, 1935 (formal matters, C.D. 1 1; 453 O.0	prose c 3. 213.	cution as to t	he merits is closed	d in			
Disp sition of Claims								
XClaim(s) 1, 2,4-20, 22 -	45		ic/ara n	anding in the analises	· • :			
Claim(s) 1, 2, 4 - 20, 22 - Of the above claim(s)	is/are w	is/are withdrawn from a poid and						
☐ Claim(s)	io/oro ol	io/oro ollowed						
Claim(s) 1, 2, 9-20, 22-4.	is/are re	is/are rejected						
□ Claim(s)	is/are of	is/are objected to						
□ Claim(s)				ect to restriction or e	election			
Application Papers			requiren					
☐ See the attached Notice of Draftsperson's Patent Drawing R	eview. PTO-948	_			•			
The proposed drawing correction, filed on 10-5-9	7 is Xapprov	ved □	disapproved.					
☐ The drawing(s) filed on is/are objected	to by the Exami	ner.						
$\hfill\Box$ The specification is objected to by the Examiner.								
☐ The oath or declaration is objected to by the Examiner.								
Pri rity under 35 U.S.C. § 119 (a)-(d)								
 □ Acknowledgment is made of a claim for foreign priority under □ All □ Some* □ None of the CERTIFIED copies of the □ received. 	priority documer	nts have	e been					
☐ received in Application No. (Series Code/Serial Number)_				·				
☐ received in this national stage application from the Interna								
*Certified copies not received: Attachment(s)				•				
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s)	·———			iew Summary, PTO-413				
Notice of Reference(s) Cited, PTO-892		of Informal Patent Application, PTO-152						
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948		☐ Oth	er					
Office Acti n Summary								

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

Part of Paper No. _

19

Application/Control Number: 09/208,962

Art Unit: 2839

The request for continued examination (RCE) is acknowledged. A first action follows.

Parent case paragraph must be updated when data is known.

Claims 18-31, 43, 32-40, 44 and 45 are rejected under 35 U.S.C. 103(a) as being Bitailbu unpatentable over Romine in view of Teka, Noschese, Seidler, Swamy, Johany and Apap.

See discussion in last office action. The use of fusion to join the Romine contacts to

is requested and Bitaillou
solder masses further tagget by Apap and Johan, see fig. 7. Solder mass use also taught by Teka.

Claims 18-31, 43, 32-40, 44 and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Feldman or Kandybowski, either one taken in view of Teka, Romine,

Bitaillou
Noschese, Seidler, Swamy, Johary and Apap.

See last office action. Further obvious to fuse solder masses to main reference contacts in Bitaillov view of Apap and Johary, see fig. 7.

Claims 1-17, 41 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fedder in view of Teka, Noschese, Swamy, Romine, Seidler, Feldman, Apap, Johary and Kandybowski.

See last office action. Also obvious to join solder masses to Fedder contacts in view of Teka, Apap and Johary. Also obvious to form all contacts as surface mounted types with tails in recesses in view of Feldman at 16, 36 and Kandybowski at 38.

Claims 1-17, 41 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ritaillov
Kandybowski in view of Johary, Apap, Swamy, Teka, Romine and Noschese.

Art Unit: 2839

See Kandybowski, fig. 4, connector 84, with central rows of signal contacts 106 between ground contacts 96. Also obvious to include, on each side three signal contact rows and two ground rows with a signal row between ground rows. Also obvious to add solder masses to contact tails 104, 108, etc in view of Noschese, figs. 1, 2 and 12, 13 embodiments, Swamy, Teka, Ritaillou
Romine, Apap and Johary.

As an alternative, obvious to form connector 84 with pcb mount face like that of the lower connector 22. Also obvious to fix solder masses to tails 54, 78 at such mounting face in view of Noschese, Romine, Teka, Swamy, Apap and Johary. Also obvious to form all contacts as surface mount type. For claim 13, note recesses 38.

Applicant's arguments filed with the last amendment have been fully considered but they are not persuasive.

As to arguments on page 5 the Fedder contacts 104 are seen to have an elongated shape transversely of ground contacts 110. For claim 13, see discussions above. The page 6, "remaining away" argument is unclear, with attached solder masses as in Seidler, Swamy or Johary the surface mount contacts would be spaced from the circuit board prior to reflow, see Seidler, fig. 9.

As to argument on page 7 "fused to contact" see Noschese, fig. 13, Apap and Johary.

Also solder masses adhered as in Johary, figs. 7, 8 would be further from the housing than are the terminal ends. As to arguments on page 10, claims in the case do not require attachment "only" by surface soldering. In addition, both Teka and Swamy show connectors mounted solely by

Application/Control Number: 09/208,962

Art Unit: 2839

surface solder. For Romine, use of part 60 is optional. As to page 11, the Swamy device is sufficiently pertinent as to teachings of solder ball use as applied above.

Any inquiry concerning this communication should be directed to N. Abrams at telephone number (703) 308-1729.

Abrams/nt

8/29/01

EXAMINER

Page 4

ART UNIT 322